\_\_\_\_\_\_

Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=9; day=3; hr=7; min=25; sec=46; ms=165; ]

## Validated By CRFValidator v 1.0.3

Application No: 10586499 Version No: 2.0

Input Set:

Output Set:

**Started:** 2009-08-19 17:04:20.657

Finished: 2009-08-19 17:04:21.522

**Elapsed:** 0 hr(s) 0 min(s) 0 sec(s) 865 ms

Total Warnings: 6

Total Errors: 2

No. of SeqIDs Defined: 7

Actual SeqID Count: 7

Error code		or code	Error Description
	W	213	Artificial or Unknown found in <213> in SEQ ID (1)
	W	213	Artificial or Unknown found in <213> in SEQ ID (2)
	Ε	323	Invalid/missing amino acid numbering SEQID (2) at Protein (9)
	W	213	Artificial or Unknown found in <213> in SEQ ID (3)
	Ε	323	Invalid/missing amino acid numbering SEQID (3) at Protein (9)
	W	213	Artificial or Unknown found in <213> in SEQ ID (4)
	W	213	Artificial or Unknown found in <213> in SEQ ID (5)
	W	213	Artificial or Unknown found in <213> in SEQ ID (7)

## SEQUENCE LISTING

```
<110> ITOH, Kyogo
       SHICHIJO, Shigeki
<120> Epidermal growth factor receptor (EGFR)-derived peptides
<130> 547586
<140> 10586499
<141> 2009-08-19
<150> JP 2004-015676
<151> 2004-01-23
<160> 7
<170> PatentIn version 3.2
<210> 1
<211> 10
<212> PRT
<213> Artificial Sequence
<220>
<223> EGFR-derived peptide at position 800-809.
<400> 1
Asp Tyr Val Arg Glu His Lys Asp Asn Ile
 1
                                     10
<210> 2
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> EGFR-derived peptide at position 124-132.
<400> 2
Asn Tyr Asp Ala Asn Lys Thr Gly Leu
<210> 3
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> EGFR-derived peptide at position 54-62.
<400> 3
```

Met Phe Asn Asn Cys Glu Val Val Leu

```
1 5
```

```
<210> 4
<211> 10
```

<212> PRT

<213> Artificial Sequence

<220>

<223> EGFR-derived peptide at position 479-488.

<400> 4

Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr
1 5 10

<210> 5

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> EGFR-derived peptide at position 1138-1147.

<400> 5

Tyr Leu Asn Thr Val Gln Pro Thr Cys Val
1 5 10

<210> 6

<211> 1210

<212> PRT

<213> Homo sapiens

<400> 6

Met Arg Pro Ser Gly Thr Ala Gly Ala Ala Leu Leu Ala Leu Leu Ala 1 5 10 15

Ala Leu Cys Pro Ala Ser Arg Ala Leu Glu Glu Lys Lys Val Cys Gln
20 25 30

Gly Thr Ser Asn Lys Leu Thr Gln Leu Gly Thr Phe Glu Asp His Phe
35 40 45

Leu Ser Leu Gln Arg Met Phe Asn Asn Cys Glu Val Val Leu Gly Asn 50 55 60

Leu Glu Ile Thr Tyr Val Gln Arg Asn Tyr Asp Leu Ser Phe Leu Lys 65 70 75 80

Thr Ile Gln Glu Val Ala Gly Tyr Val Leu Ile Ala Leu Asn Thr Val 85 90 95

Glu Arg Ile Pro Leu Glu Asn Leu Gln Ile Ile Arg Gly Asn Met Tyr 100 105 110

Tyr	Glu	Asn 115	Ser	Tyr	Ala	Leu	Ala 120	Val	Leu	Ser	Asn	Tyr 125	Asp	Ala	Asn
Lys	Thr 130	Gly	Leu	Lys	Glu	Leu 135	Pro	Met	Arg	Asn	Leu 140	Gln	Glu	Ile	Leu
His 145	Gly	Ala	Val	Arg	Phe 150	Ser	Asn	Asn	Pro	Ala 155	Leu	Cys	Asn	Val	Glu 160
Ser	Ile	Gln	Trp	Arg 165	Asp	Ile	Val	Ser	Ser 170	Asp	Phe	Leu	Ser	Asn 175	Met
Ser	Met	Asp	Phe 180	Gln	Asn	His	Leu	Gly 185	Ser	Cys	Gln	Lys	Cys 190	Asp	Pro
Ser	Cys	Pro 195	Asn	Gly	Ser	Cys	Trp 200	Gly	Ala	Gly	Glu	Glu 205	Asn	Cys	Gln
Lys	Leu 210	Thr	Lys	Ile	Ile	Cys 215	Ala	Gln	Gln	Cys	Ser 220	Gly	Arg	Cys	Arg
Gly 225	Lys	Ser	Pro	Ser	Asp 230	Cys	Cys	His	Asn	Gln 235	Cys	Ala	Ala	Gly	Cys 240
Thr	Gly	Pro	Arg	Glu 245	Ser	Asp	Cys	Leu	Val 250	Cys	Arg	Lys	Phe	Arg 255	Asp
Glu	Ala	Thr	Cys 260	Lys	Asp	Thr	Cys	Pro 265	Pro	Leu	Met	Leu	Tyr 270	Asn	Pro
Thr	Thr	Tyr 275	Gln	Met	Asp	Val	Asn 280	Pro	Glu	Gly	Lys	Tyr 285	Ser	Phe	Gly
Ala	Thr 290	Cys	Val	Lys	Lys	Cys 295	Pro	Arg	Asn	Tyr	Val 300	Val	Thr	Asp	His
Gly 305	Ser	Cys	Val	Arg	Ala 310	Cys	Gly	Ala	Asp	Ser 315	Tyr	Glu	Met	Glu	Glu 320
Asp	Gly	Val	Arg	Lys 325	Cys	Lys	Lys	Cys	Glu 330	Gly	Pro	Cys	Arg	Lys 335	Val
Cys	Asn	Gly	Ile 340	Gly	Ile	Gly	Glu	Phe 345	Lys	Asp	Ser	Leu	Ser 350	Ile	Asn
Ala	Thr	Asn 355	Ile	Lys	His	Phe	Lys 360	Asn	Cys	Thr	Ser	Ile 365	Ser	Gly	Asp
Leu	His 370	Ile	Leu	Pro	Val	Ala 375	Phe	Arg	Gly	Asp	Ser 380	Phe	Thr	His	Thr
Pro 385	Pro	Leu	Asp	Pro	Gln 390	Glu	Leu	Asp	Ile	Leu 395	Lys	Thr	Val	Lys	Glu 400
Ile	Thr	Gly	Phe	Leu 405	Leu	Ile	Gln	Ala	Trp 410	Pro	Glu	Asn	Arg	Thr 415	Asp

Leu	His	Ala	Phe 420	Glu	Asn	Leu	Glu	Ile 425	Ile	Arg	Gly	Arg	Thr 430	Lys	Gln
His	Gly	Gln 435	Phe	Ser	Leu	Ala	Val 440	Val	Ser	Leu	Asn	Ile 445	Thr	Ser	Leu
Gly	Leu 450	Arg	Ser	Leu	Lys	Glu 455	Ile	Ser	Asp	Gly	Asp 460	Val	Ile	Ile	Ser
Gly 465	Asn	Lys	Asn	Leu	Cys 470	Tyr	Ala	Asn	Thr	Ile 475	Asn	Trp	Lys	Lys	Leu 480
Phe	Gly	Thr	Ser	Gly 485	Gln	Lys	Thr	Lys	Ile 490	Ile	Ser	Asn	Arg	Gly 495	Glu
Asn	Ser	Cys	Lys 500	Ala	Thr	Gly	Gln	Val 505	Cys	His	Ala	Leu	Cys 510	Ser	Pro
Glu	Gly	Cys 515	Trp	Gly	Pro	Glu	Pro 520	Arg	Asp	Cys	Val	Ser 525	Cys	Arg	Asn
Val	Ser 530	Arg	Gly	Arg	Glu	Cys 535	Val	Asp	Lys	Cys	Lys 540	Leu	Leu	Glu	Gly
Glu 545	Pro	Arg	Glu	Phe	Val 550	Glu	Asn	Ser	Glu	Cys 555	Ile	Gln	Cys	His	Pro 560
Glu	Cys	Leu	Pro	Gln	Ala	Met	Asn	Ile	Thr	Cys	Thr	Gly	Arg	Gly	Pro
				565					570					575	
Asp	Asn	Cys	Ile 580		Cys	Ala	His	Tyr 585		Asp	Gly	Pro	His 590		Val
Asp			580	Gln				585	Ile				590	Cys	
	Thr	Cys 595	580 Pro	Gln Ala	Gly	Val	Met 600	585 Gly	Ile Glu	Asn	Asn	Thr 605	590 Leu	Cys Val	Trp
Lys	Thr Tyr 610	Cys 595 Ala	580 Pro Asp	Gln Ala Ala	Gly	Val His 615	Met 600 Val	585 Gly Cys	Ile Glu His	Asn Leu	Asn Cys 620	Thr 605 His	590 Leu Pro	Cys Val Asn	Trp Cys
Lys Lys Thr	Thr Tyr 610 Tyr	Cys 595 Ala Gly	580 Pro Asp Cys	Gln Ala Ala	Gly Gly 630	Val His 615 Pro	Met 600 Val Gly	585 Gly Cys	Ile Glu His	Asn Leu Gly 635	Asn Cys 620 Cys	Thr 605 His	590 Leu Pro	Cys Val Asn	Trp Cys Gly 640
Lys Lys Thr 625	Thr Tyr 610 Tyr	Cys 595 Ala Gly	580 Pro Asp Cys	Gln Ala Ala Thr Ser 645	Gly Gly 630 Ile	Val His 615 Pro	Met 600 Val Gly	585 Gly Cys Leu	Ile Glu His Glu Met 650	Asn Leu Gly 635 Val	Asn Cys 620 Cys	Thr 605 His	590 Leu Pro Thr	Cys Val Asn Leu 655	Trp Cys Gly 640 Leu
Lys Lys Thr 625	Thr Tyr 610 Tyr Lys	Cys 595 Ala Gly Ile	580 Pro Asp Cys Pro Val 660	Gln Ala Ala Thr Ser 645 Ala	Gly Gly 630 Ile	Val His 615 Pro Ala	Met 600 Val Gly Thr	585 Gly Cys Leu Gly Gly 665	Ile Glu His Glu Met 650 Leu	Asn Leu Gly 635 Val	Asn  Cys 620  Cys  Gly	Thr 605 His Pro	590 Leu Pro Thr Leu Arg 670	Cys Val Asn Leu 655	Trp Cys Gly 640 Leu
Lys  Thr 625  Pro  Leu  Ile	Thr Tyr 610 Tyr Lys Leu Val	Cys 595 Ala Gly Ile Val Arg 675	580 Pro Asp Cys Pro Val 660 Lys	Gln Ala Ala Thr Ser 645 Ala Arg	Gly Gly 630 Ile Leu Thr	Val His 615 Pro Ala Gly Leu	Met 600 Val Gly Thr Ile Arg 680	585 Gly Cys Leu Gly 665 Arg	Ile Glu His Glu Met 650 Leu Leu	Asn Leu Gly 635 Val Phe	Asn  Cys 620  Cys  Gly  Met	Thr 605 His Pro Ala Arg Glu 685	590 Leu Pro Thr Leu Arg 670 Arg	Cys Val Asn Asn Leu 655 Arg	Trp Cys Gly 640 Leu His

Gly Ala	Phe	Gly	Thr 725	Val	Tyr	Lys	Gly	Leu 730	Trp	Ile	Pro	Glu	Gly 735	Glu
Lys Val	_	Ile 740	Pro	Val	Ala	Ile	Lys 745	Glu	Leu	Arg	Glu	Ala 750	Thr	Ser
Pro Lys	Ala 755	Asn	Lys	Glu	Ile	Leu 760	Asp	Glu	Ala	Tyr	Val 765	Met	Ala	Ser
Val Asp 770	Asn	Pro	His	Val	Cys 775	Arg	Leu	Leu	Gly	Ile 780	Cys	Leu	Thr	Ser
Thr Val 785	Gln	Leu	Ile	Thr 790	Gln	Leu	Met	Pro	Phe 795	Gly	Cys	Leu	Leu	Asp 800
Tyr Val	Arg	Glu	His 805	Lys	Asp	Asn	Ile	Gly 810	Ser	Gln	Tyr	Leu	Leu 815	Asn
Trp Cys	Val				_	_			_			_	_	Arg
Leu Val	His 835	Arg	Asp	Leu	Ala	Ala 840	Arg	Asn	Val	Leu	Val 845	Lys	Thr	Pro
Gln His 850					855					860				
Glu Glu 865				870					875					880
Met Ala			885					890					895	
Val Trp		900					905					910		
Lys Pro	915					920					925			
Lys Gly 930					935					940				
Met Ile 945 Phe Arg				950					955					960
			965					970			_	_	975	
Arg Tyr		980					985					990		
Thr Asp	995				1	.000				1	L005			
Asp Val	val	дър	AId	_	.015	туr	теп	тте		.020	GTII	атλ	r 116	LIIG

Thr Ser Asn Asn Ser Thr Val Ala Cys Ile Asp Arg Asn Gly Leu Gln
1045 1050 1055

Ser Cys Pro Ile Lys Glu Asp Ser Phe Leu Gln Arg Tyr Ser Ser Asp 1060 1065 1070

Pro Thr Gly Ala Leu Thr Glu Asp Ser Ile Asp Asp Thr Phe Leu Pro 1075 1080 1085

Val Pro Glu Tyr Ile Asn Gln Ser Val Pro Lys Arg Pro Ala Gly Ser 1090 1095 1100

Val Gln Asn Pro Val Tyr His Asn Gln Pro Leu Asn Pro Ala Pro Ser 1105 1110 1115 1120

Arg Asp Pro His Tyr Gln Asp Pro His Ser Thr Ala Val Gly Asn Pro 1125 1130 1135

Glu Tyr Leu Asn Thr Val Gln Pro Thr Cys Val Asn Ser Thr Phe Asp 1140 1145 1150

Ser Pro Ala His Trp Ala Gln Lys Gly Ser His Gln Ile Ser Leu Asp 1155 1160 1165

Asn Pro Asp Tyr Gln Gln Asp Phe Phe Pro Lys Glu Ala Lys Pro Asn 1170 1180

Gly Ile Phe Lys Gly Ser Thr Ala Glu Asn Ala Glu Tyr Leu Arg Val 1185 1190 1195 1200

Ala Pro Gln Ser Ser Glu Phe Ile Gly Ala 1205 1210

<210> 7

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> HIV peptide with HLA-A24 binding motif

<400> 7

Arg Tyr Leu Arg Asp Gln Gln Leu Leu Gly Ile 1 5 10